

ARGON ARC PRESSURIZING CASTING MACHINE

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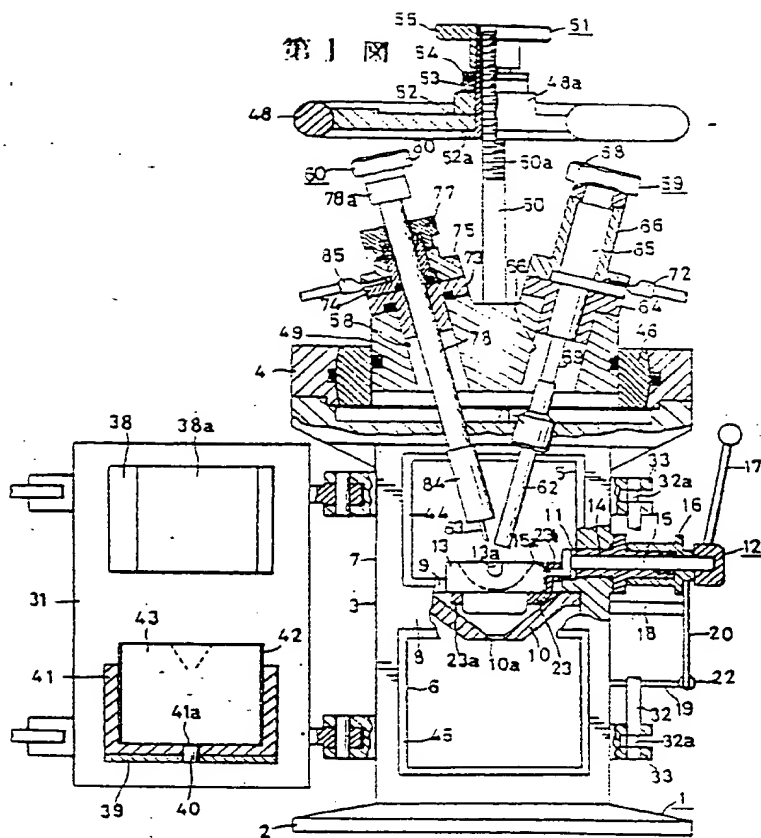
Abstract

PURPOSE: To move a pair of barlike electrodes, which move axially with respect to a cover, freely each other with respect to a crucible and melt various metals under optimum conditions by providing the crucible in the hollow part of a body, the cover which is freely vertically movable and tiltable to the top part, and said electrodes.

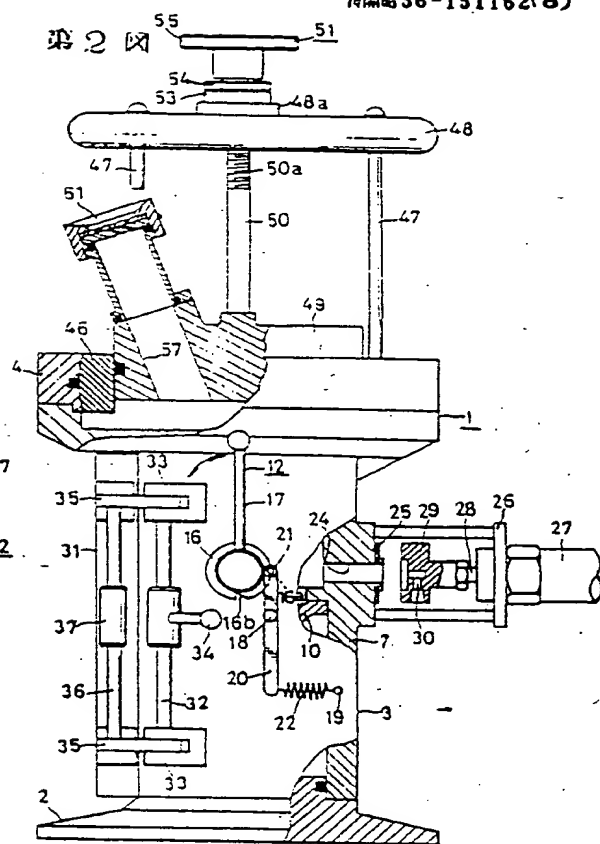
CONSTITUTION: A crucible 13 is provided in the hollow part of a body 1 of a hollow-shaped argon arc pressurizing casting machine of which the top part is opened. In addition, a cover 49 which is mounted hermetically to the opening in the top part of the body 1, can move vertically with respect to the body 1, and tilts in arbitrary directions is provided. Next, a pair of barlike electrodes 62, 63 of a V shape when viewed laterally is mounted to the cover 49 in a manner as to be axially movable with respect to the cover 49. Hence, the interelectrode distance as well as the distances between the electrodes 62, 63 and the crucible 13 are freely changeable independently to each other, and metal is evenly melted.

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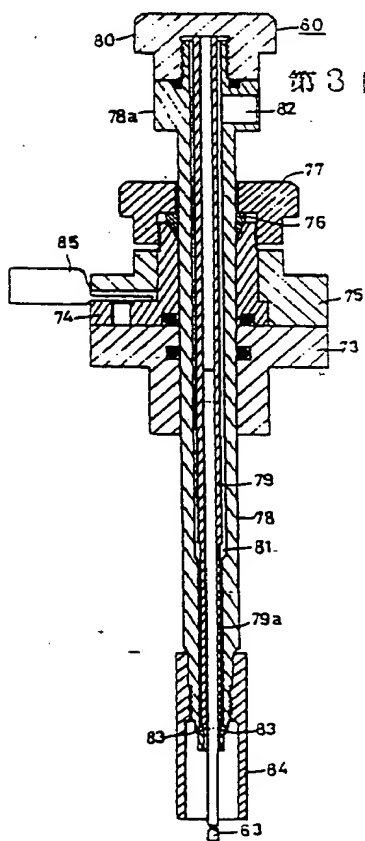
第1図



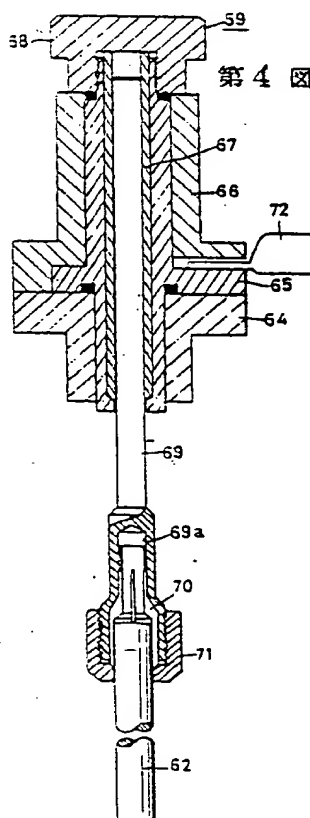
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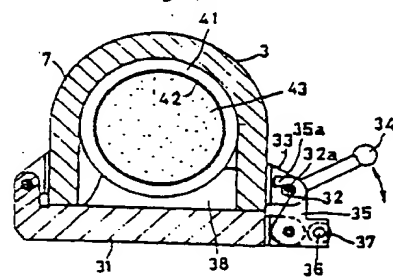
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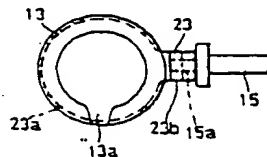
第4図



第5図



第6図



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Electric furnace melt control - inclined electrodes oscillation acceleration
process and prevents charge drop

The electrodes are oscillated in a plane perpendicular to the longitudinal axis of the furnace and their inclination is within an angle of 30° - 150°. The frequency of oscillations depends on the intensity of the arc, type of charge as well as a function of the scope of power controller, but must be above 0.0015 Hz. This increases the zone of arc effect, eliminates overheating of metal under the electrode arc and also decreases the loss of alloying elements.

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